Infection Control Assessment Tool for Hemodialysis Facilities

This tool is intended to assist in the assessment of infection control programs and practices in dialysis facilities. In order to complete the assessment, direct observation of infection control practices will be necessary. To facilitate the assessment, health departments are encouraged to share this tool with facilities in advance of their visit.

Dialysis facilities that report to NHSN complete an *Outpatient Dialysis Center Practices Survey* each year. The survey responses can be accessed in NHSN or the facility can be asked to retrieve and print their completed NHSN survey in advance of the site visit. The elements included on this assessment tool are intended to complement the NHSN survey. For facilities that do not report to NHSN, consider asking the facility to complete the practice elements of the survey.

Overview

Section 1: Facility Demographics

Section 2: Infection Control Program and Infrastructure

Section 3: Direct Observation of Facility Practices

Section 4: Infection Control Guidelines and Other Resources

Infection Control Domains for Gap Assessment

- I. Infection Control Program and Infrastructure
- II. Infection Control Training, Competency, and Audits
- III. Healthcare Personnel (HCP) Safety
- IV. Surveillance and Disease Reporting
- V. Respiratory Hygiene/Cough Etiquette
- VI. Personal Protective Equipment (PPE)
- VII. Environmental Cleaning
- VIII. Dialyzer Reuse and (if applicable) Reprocessing
- IX. Hand Hygiene
- X. Catheter and other Vascular Access Care
- XI. Injection Safety

Section 1: Facility Demographics

Facility Name (for health department use only)	
NHSN Facility	
Organization ID (for	
health department use	
only)	□ N/A because not CMS-certified or other reason, specify:
Olly)	Try A because not eitis certified of other reason, specify.
State-assigned Unique ID	
Date of Assessment	
Type of Assessment	☐ On-site ☐ Other (specify):
Rationale for Assessment	□ Outbreak
(Select all that apply)	□ Input from ESRD Network or state survey agency
	□ NHSN data
	Specify: □ BSI □ Other NHSN data, specify:
	□ Other reason (specify):
Is the facility affiliated	☐ Yes (specify): (for health department use only)
with a hospital?	□ No
Does the facility belong	□ Yes (specify):
to a dialysis chain?	□ DaVita
	□ Fresenius Medical Care
	□ Dialysis Clinic, Inc. (DCI)
	□ Other (specify):
	□No
What services are offered	□ Adult in-center hemodialysis
at the facility?	□ Pediatric in-center hemodialysis
(Select all that apply)	☐ Home hemodialysis
	□ Nocturnal hemodialysis
	□ Peritoneal dialysis
What is the typical	
patient census? (include	
all dialysis patients cared	
for by the facility)	

Section 2: Infection Control Program and Infrastructure

ı.	I. Infection Control Policies and Infrastructure				
	Elements to be assessed		Assessment	Notes/Areas for Improvement	
1.	What training does the person in charge of infection control at the facility have?	0	Certified in Infection Control (CIC)		
		0	Other (specify):		
		0	N/A, no person in charge at the facility		
2.	Is the facility participating in their ESRD Network HAI Quality Improvement	0	Yes		
	Activity (QIA)?	0	No		
3.	Has the facility participated in the CDC Dialysis BSI Prevention Collaborative?	0	Yes		
		0	No		
4.	In the past 2 years, has the facility participated in any other intensive program focused on HAI prevention?	0	Yes (specify):		
	(e.g., clinical trial, company-led quality improvement project)	0	No		
5.	Does the facility have a system for early detection and management of potentially infectious persons at initial	0	Yes, system applies at (or prior to) point of facility check-in		
	points of patient encounter?	0	Yes, system applies when patient arrives in dialysis treatment area		
	Note: System may include taking a travel history, assessing for diarrhea or draining infected wounds, and elements described under respiratory hygiene/cough etiquette.	0	No		

6.	Does the facility have a protocol for implementing Contact Precautions when		Yes	
	warranted?	0	No	
	Note: CDC does not routinely recommend Contact Precautions for multidrug resistant organisms (MDROs) in dialysis clinics. However, in certain circumstances (e.g., known or suspected MDRO transmission), Contact Precautions may be necessary.			
7.	Are there signs posted in the facility that encourage patients to take an active	0	Yes	
	role in and express their concerns about facility infection control practices?	0	No	
	Visual confirmation suggested. Consider if the facility encourages this in other ways.			
8.	What is the distance separating adjacent dialysis treatment stations?	0	< 3 feet	
	Involves observation. Select 2 adjacent and representative stations. Measure the closest	0	≥3 feet and <6 feet	
	distance between machine/chair/objects in one station and the next. If computer terminals are embedded in and shared between stations, the distance is zero.	0	≥6 feet	
9.	Does the facility have an isolation room that is available for isolation of	0	Yes	
	conditions other than hepatitis B? (i.e., not currently in use for hepatitis B patients)?	0	No	
	Visual confirmation suggested.			
10.	Does the facility use a room that is physically separate from the treatment	0	Yes	
	area for storage and preparation of injectable medications?	0	No	
	Visual confirmation suggested.			

Elements to be assessed	Assessment	Notes/Areas for Improvement
 Does the facility provide job-specific training to healthcare personnel (HCP) on infection prevention policies and procedures upon hire and at least annually and when new protocols are introduced? 	Yes (facility should be able to provide examples of training)No	·
Note: This includes those employed by outside agencies and available by contract or on a volunteer basis to the facility.		
2. Does the facility assess and document competency with job-specific infection	O Yes	
prevention policies and procedures upon hire and through, at a minimum, annual evaluations/assessments?	O No	
3. Does the facility routinely conduct audits of staff infection control practice?	O Yes (facility should be able to show results of these audits)	
	O No	
a. If Yes, does the facility provide feedback on adherence to clinical	O Yes (facility should be able to provide examples of feedback)	
staff?	O No	
	O N/A, no audits conducted	
4. Does the facility routinely use CDC tools for educating staff and/or assessing practice?	O Yes (should be able to view CDC tools in the facility)	
	O No	

tool(s	indicate the) used It all that apply)	O Pa	DC Video: Preventing BSIs in outpatient Hemodialysis atients: Best Practices for ialysis Staff	
		in In	DC Approach to BSI Prevention in Dialysis Facilities (i.e., Core interventions for Dialysis BSI revention)	
	0		DC Hemodialysis Central Venous atheter Scrub-the-Hub Protocol	
	CI	OC E	Dialysis audit tools:	
		0	Hand hygiene	
		0	Catheter connection & disconnection	
		0	Catheter exit site care	
		0	Arteriovenous fistula & graft cannulation	
		0	Injectable medication preparation & administration	
		0	Routine disinfection of dialysis station	
	CI	OC E	Dialysis checklists:	
		0	Catheter connection & disconnection	
		0	Catheter exit site care	
		0	Arteriovenous fistula & graft	
		0	cannulation and decannulation Injectable medication	
		O	preparation & administration	
		0	Routine disinfection of dialysis station	
	0	0	ther (specify):	
		_		
		_		
	C	N	/A, no CDC tools used	

III.	III. Healthcare Personnel (HCP) Safety					
	Elements to be assessed		Assessment	Notes/Areas for Improvement		
1.	Does the facility provide post-exposure evaluation and follow-up, including prophylaxis as appropriate, to healthcare personnel (HCP) at no cost following an exposure event?	0 0	Yes No			
2.	Does the facility track HCP exposure events, evaluate event data and develop/implement corrective action plans to reduce incidence of such events?	0 0	Yes No			
3.	Does the facility offer hepatitis B vaccine to personnel who may be exposed to blood or body fluids through their job duties?	0 0	Yes No			
4.	Does the facility offer influenza vaccine to all personnel?	0	Yes No			
5.	Does the facility conduct baseline tuberculosis (TB) screening of HCP?	0	Yes No			
6.	Does the facility have work-exclusion policies that encourage reporting of illnesses and do not penalize with loss of wages, benefits, or job status?		Yes No			
7.	Does the facility educate HCP on prompt reporting of illness or job-related injury to supervisor and/or occupational health?		Yes No			

IV. Surveillance and Disease Reporting				
	Elements to be assessed		Assessment	Notes/Areas for Improvement
1.	facility's bloodstream infection (BSI) rate in NHSN or BSI standardized infection		Yes No	
	ratio (SIR)?		N/A, data are not reported to NHSN	
2.	mandates blood culture collection	0	Yes	
	before antimicrobial administration any time a BSI is suspected?	0	No	
	If yes, consider how is the policy implemented and enforced			
3.	Does the facility conduct routine screening of hemodialysis patients for hepatitis C antibody?	0	Yes, on admission and every 6-12 mos thereafter for susceptible patients	
		0	No	
4.	clusters of infections, adverse events, or a new hepatitis B/C case to public	0	Yes, knows what to report and how	
	health?	0	No	
5.	Does the facility have a system in place to communicate infection or	0	Yes	
	colonization with a multidrug resistant organism (MDRO) to other healthcare facilities upon transfer?	0	No	

v.	V. Respiratory Hygiene/Cough Etiquette					
	Elements to be assessed	Assessment	Notes/Areas for Improvement			
A.	In non-clinical areas:					
1.	Does the facility have signs posted at entrances with instructions to patients with symptoms of respiratory infection to:	O Yes O No				
	 cover their mouth/nose when coughing or sneezing? use and dispose of tissues? perform hand hygiene after contact with respiratory secretions? 					
2.	Does the facility provide a means for patients to perform hand hygiene in or near waiting areas?	O Yes				
	mear watering areas.	O No				
3.	Does the facility provide space and encourage persons with symptoms of	O Yes				
	respiratory infection to sit as far away from others as possible?	O No				
4.	Does the facility provide tissues and notouch receptacles for disposal of	O Yes				
	tissues? Applies during periods of increased	O No				
	respiratory infections in the community	N/A, not a period of increased respiratory infections				
5.	Does the facility offer facemasks upon facility entry to patients with symptoms	O Yes				
	of respiratory infection? Applies during periods of increased	O No				
	respiratory infections in the community	O N/A, not a period of increased respiratory infections				
В.	In clinical areas:					
6.	Does the facility have the ability to separate symptomatic patients (by at	O Yes				
	least 6 feet) from other patients and their stations during dialysis treatment?	O No				

VI.	/I. Personal Protective Equipment (PPE)				
	Elements to be assessed	Assessment	Notes/Areas for Improvement		
1.	Does the facility provide job-specific training to HCP on proper selection and	O Yes			
	use of PPE upon hire, at least annually, and when policies/procedures change?	O No			
2.	Does the facility validate HCP competency with use of PPE?	O Yes			
		O No			
3.	Supplies necessary for adherence to PPE recommendations (e.g., gloves, gowns,	O Yes			
	and face protection) are available and located near point of use.	O No			
	Visual confirmation suggested.				

VII. Environmental Cleaning Notes/Areas for Elements to be assessed **Assessment Improvement** 1. Does the facility have written policies O Yes and procedures for routine cleaning and disinfection of environmental surfaces, O No including clearly defining responsible personnel? Note: Policy and procedures should identify staff responsible for performing cleaning and disinfection as well as those responsible for selection and preparation of disinfectant solution(s). 2. Does the facility provide job-specific O Yes training to responsible personnel on environmental cleaning and disinfection O No upon hire, at least annually, and when policies/procedures change? Note: If environmental cleaning is performed by contract personnel, facility should verify this is provided by contracting company. 3. Does the facility regularly audit (monitor O Yes (facility should be able to and document) adherence to cleaning show results of these audits) and disinfection procedures? O No Note: If environmental cleaning is performed by contract personnel, facility should verify this is provided by contracting company. 4. Does the facility have a O Yes policy/procedure for decontamination of spills of blood or other body fluids? O No

VIII. Dialyzer Reuse and Reprocessing					
Elements to be assessed	Assessment	Notes/Areas for Improvement			
1. Does the facility reuse dialyzers?	 Yes (specify): Dialyzers are reprocessed on-site Dialyzers are reprocessed off-site No 				
A. If Yes, complete the following section. Questio or off-site.	ns 2 & 3 apply to all facilities that reuse dial	yzersreprocessing can be on-			
2. Does the facility document informed consent for patients who participate in dialyzer reuse?	 Yes (facility should be able to provide informed consent document) 				
	O No				
	N/A, facility does not reuse dialyzers				
Does the facility have policies and procedures to ensure that dialyzers are	O Yes				
cleaned and reprocessed appropriately prior to reuse?	O No				
If reprocessing is performed off-site, facility policies and procedures should address safe handling of used dialyzers prior to reprocessing and assessment of disinfection process after reprocessing.	O N/A, facility does not reuse dialyzers				

	B. If answered Yes to Question 1 and dialyzers are reprocessed on site, complete the following section. Questions 4-7 apply to facilities that perform dialyzer reprocessing on-site.				
	Does the facility train personnel		Yes		
	responsible for reprocessing dialyzers on proper selection and use of PPE and				
	recommended steps for reprocessing	0	No		
	equipment?				
		O	N/A, facility does not reuse dialyzers or dialyzer reprocessing		
			performed off-site		
5.	Does the facility test the competency of	_			
٦.	personnel responsible for reprocessing	0	Yes		
	dialyzers upon hire, at least annually,	0	No		
	and when new equipment is introduced?		110		
		0	N/A, facility does not reuse		
			dialyzers or dialyzer reprocessing performed off-site		
			performed on-site		
6.	Does the facility regularly audit (monitor and document) adherence to reprocessing procedures and provide feedback to personnel regarding their	0	Yes (facility should be able to		
			show results of these audits)		
		0	No		
	performance?		140		
		0	N/A, facility does not reuse		
			dialyzers or dialyzer reprocessing performed off-site		
			performed on-site		
7.	Does the facility perform routine	0	Yes		
	maintenance for reprocessing equipment (e.g., automated				
	reprocessors) by qualified personnel in	0	No		
	accordance with manufacturer instructions?	0	Not applicable because only		
	instructions?		manual reprocessing methods		
	Confirm maintenance records are available.		used		
		0	N/A, facility does not reuse		
			dialyzers or dialyzer reprocessing		
			performed off-site		
		l			

Section 3: Direct Observation of Facility Practices

Certain infection control lapses (e.g., reuse of syringes on more than one patient or to access a medication container that is used for subsequent patients; reuse of lancets) can result in bloodborne pathogen transmission and should be halted immediately. Identification of such lapses warrants appropriate notification and testing of potentially affected patients.

*National Healthcare Safety Network (NHSN) minimum plan requirements for each audit type are included as a number of minimum observations to consider.

Infection Control Observations						
Infection Control Observations	% Adherence	Gaps	Comments			
		Identified				
(i) Hand hygiene		O Yes				
http://www.cdc.gov/dialysis/PDFs/collaborative/He		O No				
modialysis-Hand-Hygiene-Observations.pdf						
*NHSN minimum requirement = 30 observations		0.455				
(ii) Catheter connection and disconnection		O Yes				
http://www.odo.gov/dialysis/DDFs/collaborative/Cat		O NI -				
http://www.cdc.gov/dialysis/PDFs/collaborative/Cat heter-Connection-Disconnection-Observations.pdf		O No				
*NHSN minimum requirement = 10 observations						
(iii) Catheter exit site care		O Yes				
,						
http://www.cdc.gov/dialysis/PDFs/collaborative/Cat		O No				
heter-Exit-Site-Care-Observations.pdf						
*NHSN minimum requirement = 5 observations						
(iv) Arteriovenous fistula & graft		O Yes				
cannulation						
		O No				
http://www.cdc.gov/dialysis/PDFs/collaborative/AV-						
Fistula-Graft-Can-Decannulation-Observations-AT.pdf						
*NHSN minimum requirement = 10 observations						
(v) Injectable medication preparation		O Yes				
http://www.cdc.gov/dialysis/PDFs/collaborative/He modialysis-InjectionSafety-Observations.pdf		O No				
*NHSN minimum requirement = 5 observations						
(vi) Injectable medication administration		O Yes				
(vi) injectable inedication daministration		0 103				
http://www.cdc.gov/dialysis/PDFs/collaborative/He		O No				
modialysis-InjectionSafety-Observations.pdf		0 110				
*NHSN minimum requirement = 5 observations						
(vii) Routine disinfection of dialysis station		O Yes				
http://www.cdc.gov/dialysis/PDFs/dialysis-Station-		O No				
<u>Disinfect-Tool-7-2015.pdf</u>						
*NHSN minimum requirement = 10 observations	ĺ	I				

Section 4: Infection Control Guidelines and Other Resources

Infection prevention resources for dialysis settings: http://www.cdc.gov/dialysis/ Relevant guidelines: http://www.cdc.gov/dialysis/guidelines/index.html CDC Recommendations for Preventing Transmission in Chronic Hemodialysis Patients: http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5005a1.htm □ Prevention tools, including checklists and audit tools: http://www.cdc.gov/dialysis/prevention- tools/index.html CDC Approach to BSI Prevention in Dialysis Facilities (i.e., the Core Interventions for Dialysis BSI Prevention): http://www.cdc.gov/dialysis/prevention-tools/core-interventions.html □ CDC hemodialysis central venous catheter Scrub-the-Hub Protocol: http://www.cdc.gov/dialysis/PDFs/collaborative/Hemodialysis-Central-Venous-Catheter-STH-Protocol.pdf □ Environmental surface disinfection in dialysis facilities: Notes for clinical managers: http://www.cdc.gov/dialysis/PDFs/collaborative/Env notes Feb13.pdf □ Provider education: http://www.cdc.gov/dialysis/clinician/index.html Best practices video: http://www.cdc.gov/dialysis/prevention-tools/training-video.html □ Infection prevention in dialysis continuing education course: http://www.cdc.gov/dialysis/clinician/CE/infection-prevent-outpatient-hemo.html □ NHSN Outpatient Dialysis Center Practices Survey: http://www.cdc.gov/nhsn/forms/57.500 outpatientdialysissurv blank.pdf